Trade Name: Soda-Club / Alco₂Jet Carbon Dioxide Cylinder.

1 Substance / Name of Preparation and Company

Data regarding the Product:

Trade Name: Soda-Club / Alco₂Jet Carbon Dioxide Cylinder.

Producer: Aluminum Cylinder;
Soda-Club Ltd.
Airport –City, P.O.B 280
Ben - Gurion Airport, 70100
Israel
Tel. ++972-3- 9762323
Fax. ++972-3- 9736673

Distribution in USA: Soda-Club USA, Inc.
One Mall Drive,
Suite 905
Cherry Hill, NJ 08002,
USA
Tel. +1 856 755 3400
Fax. +1 856 667 7826

Information Department: Distribution

Emergency Information: Chemtrec
Tel. 800-424-9300

2 Compound / Details regarding the ingredients

Description: Pressurised CO₂ gas Cylinder.

Hazardous ingredients: Liquefied CO₂

3 Possible Dangers

Designation of Danger: Asphyxiant

Special reference regarding danger for humans and environment: Gas cylinder is under pressure. Keep away from heat sources and handle carefully. Do not tamper with the valve!
4 First Aid Measures

General remarks: All information regarding First Aid refers to an accident, during which large amounts of carbon dioxide escape from pressurised gas cylinders.

In case of inhalation: Remove the person in question from the danger zone and take him to an area with fresh air. Ensure use of protection measures for rescue personnel. Carbon dioxide has a suffocating effect. Resuscitate persons with respiratory standstill. Call emergency doctor immediately.

In case of skin contact: Skin contact with carbon dioxide snow can cause serious frostbite. Thaw affected spot with cold water and apply sterile bandage to it. Go to see a doctor immediately.

In case of swallowing: Not probable.

Remarks for the doctor: Possibly artificial oxygen resuscitation (pay attention to aspiration in case of vomit), at the most intubation and observation of blood gases or acid/base equilibrium required, possibly THAM. Continuously symptomatic. Follow-up observation. In case of local effects of carbon dioxide snow, dry treatment as in the case of frostbite.

Frozen tissues should be flooded or soaked with tepid water (105-115F; 41-46C). DO NOT USE HOT WATER. Cryogenic burns which result in blistering or deeper tissue freezing should be seen promptly by a physician.

5 Fire extinguishing measures

Applicable extinguishing substances: Non-flammable.

For security reasons inappropriate extinguishing substances: None

Special hazards: When heated, safety device on Carbon dioxide cylinder can release all of the CO₂.

Carbon dioxide is an extinguishing agent for Class B & C fires.

6 Measures in case of involuntary release

Precautions against personal injuries: If the gas cylinder empties quickly, it can cool down to very low temperatures. Wait several minutes before touching the cylinder and other frozen items because of the danger of frostbite. Use a breathing mask with filter type B. In case of low oxygen concentration wear breathing aids that are independent of the surrounding air.

Measures for environmental protection: This product does not pose an environmental threat.

Means for cleaning / wiping: Not applicable to CO₂.

Additional remarks: In case of gas leakage provide good ventilation. (Danger of suffocation in closed spaces). Carbon dioxide is heavier than air and collects on the floor (especially dangerous for small children and pets).
Trade Name: Soda-Club / Alco₂Jet Carbon Dioxide Cylinder.

7 Handling and Storage

Handling

Do not tamper with the gas cylinder valve!
Remarks regarding fire and explosion protection: Do not overheat.

Storage

Special requirements for storage spaces and containers: Store dry and cool. Store in well ventilated spaces.
Storage with other substances: Do not store together with substances of storage classes: 1, 3A, 3B, 4.1A, 4.1B, 4.2, 4.3, 5.1A, 5.1B, 5.2, 6.1A, 6.1B, 6.2 and 10.
Special regulations for storage together with substances of classes 2A, 2B, 5.1C, 7, 8 and 11.
Storage class (VCI): 2A (compressed, liquefied and pressurized gasses, as well as gas pressure packaging).

8 Limitation of exposure and personal protective equipment

Ingredients with working place related value limitations

THRESHOLD LIMIT VALUE
TLV = 5000 ppm [TLV-STEL (Short Term Exposure Limit) = 15000 ppm (1.5% by vol.)]
Additional remarks: Carbon dioxide has a suffocating effect and is odorless.

Personal protective equipment

Breathing protection: Use self-contained breathing apparatus in oxygen-deficient atmospheres or where carbon dioxide exceeds 1.5%. CAUTION! Respirators will not function. Use may result in asphyxiation.

Hand protection: Loose fitting gloves of impermeable material such as leather when working with cold liquid, solid, or vapor.

Eye protection: Safety glasses are recommended when handling high-pressure cylinders and in areas where vapors are discharged.

Body protection: not required
9 Physical and chemical features

All data refers to carbon dioxide.

Appearance:

Form: gas  Color: colorless  Smell: odorless
Carbon dioxide is colorless and odorless as gas or liquid. It is stored in containers under its own vapor pressure. If the pressure is suddenly relieved, the liquid rapidly cools as it evaporates and sublimes, forming dry ice at -109.3°F (-78.5°C)

Security related data:

Melting point / Melting range: sublimated at -109.3°F (-78.5°C)

Point of ignition: no data

Fire supporting features: extinguishes fire

Density at 32°F (0°C): 96.26g/l of 100% concentration of gas

Solubility in water: 0.91 at 68°F (20°C)

10 Stability and Reactivity

data relate to carbon dioxide cylinders

Conditions to be avoided: heat, direct sunlight, blows, shock

Substances to be avoided: the product is inert.

Hazardous decomposition products: none

11 Toxicological Details

Toxicological Examinations:

All data relate to carbon dioxide

Acute toxicity:

Lethal effect beginning at a concentration of 8-10% in the air.

Irritating / Caustic effect: None  Sensitization: None
Carbon dioxide is a minor but important constituent of the atmosphere, averaging about 0.03% or 300 ppm by volume. At higher concentrations it affects the respiratory rate. Additional symptoms are described below:
Carbon dioxide does not support life and may produce immediately hazardous atmospheres. At high concentrations, carbon dioxide may produce hyperventilation, headaches, visual disturbances, tremor, loss of consciousness and death. Symptoms of exposure in the concentration ranges of 1.5-5% may be highly variable, but typical symptoms of carbon dioxide intoxication include the following:

<table>
<thead>
<tr>
<th>CO₂ Concentration</th>
<th>Symptoms</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-6%</td>
<td>headaches, dyspnea, perspiration</td>
</tr>
<tr>
<td>6-10%</td>
<td>headache, dyspnea, perspiration, tremors, visual disturbance, unconsciousness</td>
</tr>
<tr>
<td>Over 10%</td>
<td>unconsciousness</td>
</tr>
</tbody>
</table>

Carcinogenic, genetic or fertility impairing effects: None

Other details: Carbon dioxide has a suffocating effect.

12 Ecological Information

The product is completely harmless biologically.

Water endangering class: generally not hazardous to water quality.

13 Remarks regarding disposal

Product:

Recommendation: Do not attempt to dispose of residual carbon dioxide in compressed gas cylinders. Return to manufacturer or distributor for disposal.

14 Information regarding Transport

Transport on Land

ADR/RID/49cfr172.101 Class: 2 Number/Letter: 2A Label code: 2.2

Proper shipping name: Carbon Dioxide
Description for transport documents: UN 1013 Carbon Dioxide 2, 2A, ADR

15 Regulations

Design code 49cfr178.46 DOT-3AL-1800 cylinders

15.1 Identification:

Approval # 300b-99-03 for DOT-3AL-1800 Aluminum Cylinders.

Registration # M-9903 marked on each cylinder.
Trade Name: Soda-Club / Alco2Jet Carbon Dioxide Cylinder.

National Regulations:
Carbon dioxide cylinders conform to Department of Transportation (DOT) specifications.

16 Other Information

High concentration levels of CO₂ discharged from single cylinders is unlikely to occur in other than extremely confined locations.

The information is based on our present level of knowledge. It does not present any assurance of product features, and does not represent any legal relationship.

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Further information:

Contact: Mr. Tom Jacobsen
Office: 856-755-3418
Fax: 856-667-7826